

ENTERED

Sortal Number: 09/815,937

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEO ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEO ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/lien name at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patent bug). Sequences corrected: _____
- ☐ Other: _____

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form. 2/1/95

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/815,937

DATE: 09/05/2001
TIME: 20:36:28

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\09052001\I815937.raw

4 <110> APPLICANT: Allen, Keith D.
5 Matthews, William
6 Moore, Mark
8 <120> TITLE OF INVENTION: TRANSGENIC MICE CONTAINING
9 LYMPHOID-SPECIFIC GPCR GENE DISRUPTIONS
12 <130> FILE REFERENCE: R-611
14 <140> CURRENT APPLICATION NUMBER: US 09/815,937
15 <141> CURRENT FILING DATE: 2001-03-22
17 <150> PRIOR APPLICATION NUMBER: US 60/191,128
18 <151> PRIOR FILING DATE: 2000-03-22
20 <150> PRIOR APPLICATION NUMBER: US 60/221,485
21 <151> PRIOR FILING DATE: 2000-07-27
23 <160> NUMBER OF SEQ ID NOS: 21
25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 4768
29 <212> TYPE: DNA
30 <213> ORGANISM: Artificial Sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: Phage vector
35 <400> SEQUENCE: 1
36 gttaactacg tcaggtggca cttttcgggg aaatgtgctc ggaaccccta tttgtttatt 60
37 tttctaaata cattcaaata tgtatccgct catgagacaa taaccctgat aaatgcttca 120
38 ataattattga aaaaggaaga gtatgagtat tcaacatttc cgtgtcgccc ttattccctt 180
39 ttttgcggca ttttgccttc ctgtttttgc tcaccagaaa acgctggtga aagtaaaaga 240
40 tgctgaagat cagttgggtg cacgagtggg ttacatcgaa ctggatctca acagcggtaa 300
41 gatccttgag agttttcgcc ccgaagaacg ttctccaatg atgagcactt ttaaagtctt 360
42 gctatgtggc gcggtattat cccgtgttga cgccgggcaa gagcaactcg gtcgccgcat 420
43 acactattct cagaatgact tggttgagta ctcaccagtc acagaaaagc atcttacgga 480
44 tggcatgaca gtaagagaat tatgcagtgc tgccataacc atgagtgata acactgcggc 540
45 caacttactt ctgacaacga tcggaggacc gaaggagcta accgcttttt tgcacaacat 600
46 gggggtatcat gtaactcgcc ttgatcggtg ggaaccggag ctgaatgaag ccataccaaa 660
47 cgacgagcgt gacaccacga tgcctgtagc aatggcaaca acgttgcgca aactattaac 720
48 tggcgaacta ctactctag cttcccggca acaattaata gactggatgg aggcggataa 780
49 agttgcagga ccacttctgc gtcggccctt tccggctggc tggtttattg ctgataaatc 840
50 tggagccggt gagcgtgggt ctcgcggtat cattgcagca ctggggccag atggttaagc 900
51 ctcccgtatc gtagttatct acacgacggg gagtcaggca actatggatg aacgaaatag 960
52 acagatcgct gagataggtg cctcactgat taagcattgg taactgtcag accaagttaa 1020
53 ctcatatata ctttagattg atttaccctg gttgataatc agaaaagccc caaaaacagg 1080
54 aagattgtat aagcaaatat ttaaattgta aacgttaata ttttgttaa attcgcgtta 1140
55 aatttttggt aaatcagctc attttttaac caataggccg aaatcggcaa aatcccttat 1200
56 aaatcaaaag aatagcccga gatagggttg agtgtgttc cagtttgtaa caagagtcca 1260
57 ctattaaaga acgtggactc caacgtcaaa gggcgaaaaa ccgtctatca gggcgatggc 1320
58 ccactacgtg aaccatcacc caaatcaagt tttttggggt cgagggtgcc taaagcacta 1380
59 aatcggaacc ctaaaggag ccccgattt agagcttgac ggggaaagcg aacgtggcga 1440
60 gaaaggaagg gaagaaagcg aaaggagcgg gcgctagggc gctggcaagt gtagcggta 1500
61 cgctgcgcgt aaccaccaca cccgcgcgc ttaatgcgcc gctacagggc gcgtaaaaag 1560

RAW SEQUENCE LISTING

DATE: 09/05/2001

PATENT APPLICATION: US/09/815,937

TIME: 20:36:28

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\09052001\I815937.raw

```

62 atctagggtga agatcctttt tgataatctc atgacccaaa tcccttaacg tgagtttttcg 1620
63 ttccactgag cgtcagaccc cgtagaaaag atcaaaggat cttcttgaga tcctttttttt 1680
64 ctgcgcgtaa tctgctgctt gcaaacaaaa aaaccaccgc taccagcggg gggtttgtttg 1740
65 ccggatcaag agctaccaac tctttttccg aaggtaactg gcttcagcag agcgcagata 1800
66 ccaaatactg ttcttctagt gtagccgtag ttaggccacc acttcaagaa ctctgtagca 1860
67 ccgcctacat acctcgctct gctaatcctg ttaccagtgg ctgctgccag tggcgataag 1920
68 tcgtgtctta ccgggttga ctcaagacga tagttaccgg ataaggcgca gcggtcgggc 1980
69 tgaacggggg gttcgtgcac acagcccagc ttggagcgaa cgacctacac cgaactgaga 2040
70 tacctacagc gtgagctatg agaaagcgcc acgcttcccg aaggagaaaa ggccggacagg 2100
71 tatccggtaa gcggcagggt cggaacagga gagcgacga gggagcttcc agggggaaac 2160
72 gcctgggtatc ttatagtcc tgtcgggttt cgccacctct gacttgagcg tcgatttttg 2220
73 tgatgctcgt cagggggggc gagcctatgg aaaaacgcca gcaacgcggc ctttttacgg 2280
74 ttcttgccct tttgctggcc ttttgcctac atgtaatgtg agttagctca ctcataggc 2340
75 accccaggct ttacacttta tgcttccggc tcgtatgttg tgtggaattg tgagcggata 2400
76 acaatttcac acaggaaaca gctatgacca tgattacgcc aagctacgta atacgactca 2460
77 ctaggcggcc gcgtttaaac aatgtgtctc tctttggctt gcttccgcgg gccaaagccag 2520
78 acaagaacca gttgacgtca agcttcccgg gagcgtgct agcggcgcg cgaattcctg 2580
79 caggattcga gggcccctgc aggtcaattc taccgggtag gggaggcgct tttcccaagg 2640
80 cagtctggag catgcgcttt agcagccccg ctggcacttg gcgctacaca agtggcctct 2700
81 ggctcgcac acattccaca tccaccggta gcgccaaccg gctccgttct ttggtggccc 2760
82 cttcgcgcca ccttctactc ctcccctagt caggaaagttc ccccccgcgc cgcagctcgc 2820
83 gtcgtgcagg acgtgacaaa tggaaagtag acgtctcact agtctcgtgc agatggacag 2880
84 caccgctgag caatggaagc gggtaggcct ttggggcagc ggccaatagc agctttgtct 2940
85 cttcgctttc tgggctcaga ggctgggaag ggggtgggtcc gggggcgggc tcaggggcgg 3000
86 gctcaggggc ggggcgggcg cgaaggtcct cccgaggccc ggcattctcg cacgcttcaa 3060
87 aagcgcacgt ctgccgcgt gttctcctct tctctatctc cgggcctttc gacctgcagc 3120
88 caatatggga tcggccattg aacaagatgg attgcacga ggttctccgg ccgcttgggt 3180
89 ggagaggcta ttcggctatg actgggcaca acagacaatc ggctgctctg atgccgccgt 3240
90 gttccggctg tcagcgcagg ggcgcccggg tctttttgtc aagaccgacc tgtccgggtg 3300
91 cctgaatgaa ctgcaggacg aggcagcgcg gctatcgtgg ctggccacga cgggcgttcc 3360
92 ttgcgcagct gtgctcgacg ttgtcactga agcgggaagg gactggctgc tattgggcga 3420
93 agtgcggggg caggatctcc tgtcatctca ccttgtcct gccgagaaag tatccatcat 3480
94 ggctgatgca atgcggcggc tgcatacgt tgatccggct acctgcccac tcgaccacca 3540
95 agcgaacat cgcacgcagc gagcacgtac tcggatggaa gccggtcttg tcgatcagga 3600
96 tgatctggac gaagagcatc aggggctcgc gccagccgaa ctgttcgcca ggctcaaggc 3660
97 gcgcatgcc gacggcgatg atctcgtcgt gacctatgg gatgcctgct tgccgaatat 3720
98 catggtggaa aatggccgct tttctggatt catcgactgt ggccggctgg gtgtggcgga 3780
99 ccgctatcag gacatagcgt tggctaccgg tgatattgct gaagagcttg gcggcgaatg 3840
100 ggctgaccgc ttctcgtgc tttacgggat cgccgctccc gattcgcagc gcatcgcctt 3900
101 ctatcgctt cttgacgagt tcttctgagg gcatcgatcc gtcctgtaag tctgcagaaa 3960
102 ttgatgatct attaaacaat aaagatgtcc actaaaatgg aagtttttcc tgtcatactt 4020
103 tgtaagaag ggtgagaaca gagtacctac attttgaatg gaaggattgg agctacgggg 4080
104 gtgggggtgg ggtgggatta gataaatgcc tgctctttac tgaaggctct ttactattgc 4140
105 tttatgataa tgtttctatg ttggatatca taatttaaac aagcaaaacc aaattaaggg 4200
106 ccagctcatt cctcccactc atgatctata gatctataga tctctcgtgg gatcattgtt 4260
107 ttctcttga ttcccacttt gtggttctaa gtactgtgg ttccaaatgt gtcagtttca 4320
108 tagctgaag aacagatca gcagcctctg ttccacatac acttcattct cagtattgtt 4380
109 ttgccaaagt ctaattccat cagaagctga ctctagatct ggatccggcc agctaggccg 4440
110 tcgacctcga gtgatcagg accaagggtc tcgctctgtg tccgttgagc tcgacgacac 4500

```

RAW SEQUENCE LISTING

DATE: 09/05/2001

PATENT APPLICATION: US/09/815,937

TIME: 20:36:28

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\09052001\I815937.raw

```

111 aggacacgca aattaattaa ggccggcccg taccctctag tcaaggcctt aagtgagtcg 4560
112 tattacggac tggccgtcgt ttacaacgt cgtgactggg aaaaccctgg cgttacccaa 4620
113 cttaatcgcc ttgcagcaca tccccctttc gccagctggc gtaatagcga agaggcccg 4680
114 accgatcgcc cttcccaaca gttgcgcagc ctgaatggcg aatggcgctt cgcttggtaa 4740
115 taaagcccg ctcggcgggc tttttttt 4768
117 <210> SEQ ID NO: 2
118 <211> LENGTH: 6355
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: Phage vector
125 <400> SEQUENCE: 2
126 gtttaatagt aatcaattac ggggtcatta gttcatagcc catatatgga gttccgcgtt 60
127 acataactta cggtaaatgg cccgcctggc tgaccgcca acgacccccg cccattgacg 120
128 tcaataatga cgtatgttcc catagtaacg ccaataggga ctttccaatg acgtcaatgg 180
129 gtggagtatt tacggtaaac tgcccacttg gcagtacatc aagtgtatca tatgccagt 240
130 acgcccccta ttgacgtcaa tgacggaaaa tggcccgctt ggcattaagc ccagtacatg 300
131 accttatggg actttcctac ttggcagtac atctacgtat tagtcatcgc tattaccatg 360
132 gtgatgcggt tttggcagta catcaatggg cgtggatagc ggtttgactc acggggattt 420
133 ccaagtctcc accccattga cgtcaatggg agtttgtttt ggcacccaaa tcaacgggac 480
134 ttccaaaat gtcgtaacaa ctccgcccc a ttgacgcaaa tgggcggtag gcgtgtacgg 540
135 tgggaggtct atataagcag agctgggtta gtgaaccgtc agatccgcta gcgctaccgg 600
136 tcgccaccat ggtgagcaag ggcgaggagc tgttcaccgg ggtggtgccc atcctggtcg 660
137 agctggacgg cgacgtaaac ggccacaagt tcagcgtgtc cggcgagggc gagggcgatg 720
138 ccacctacgg caagctgacc ctgaagttca tctgcaccac cggcaagctg cccgtgccct 780
139 ggccaccct cgtgaccacc ctgacctacg gcgtgcagtg cttcagccgc taccgacc 840
140 acatgaagca gcacgacttc ttcaagtccg ccatgcccga aggtacgtc caggagcgca 900
141 ccattcttct caaggacgac ggcaactaca agaccgcgc cgaggtgaag ttcgagggcg 960
142 acaccctggt gaaccgcac gcgtgaagg gcatcgactt caaggaggac ggcaacatcc 1020
143 tggggcaca gctggagtac aactacaaca gccacaacgt ctatatcatg gccgacaagc 1080
144 agaagaacgg catcaagggtg aacttcaaga tccgccacaa catcgaggac ggcagcgtgc 1140
145 agctcgccga ccaactaccag cagaacaccc ccatcgccga cggccccgtg ctgctgcccc 1200
146 acaaccacta cctgaggacc cagtccgccc tgagcaaaga ccccaacgag aagcgcgatc 1260
147 acatggtcct gctggagttc gtgaccgccc ccgggatcac tctcggcatg gacgagctgt 1320
148 acaagtccgg actcagatcc accggatcta gataactgat cataatcagc cataccacat 1380
149 ttgtagaggt tttacttgct ttaaaaaacc tcccacacct cccctgaac ctgaaacata 1440
150 aaatgaatgc aattgttgtt gttaacttgt ttattgcagc ttataatggt taaaaataaa 1500
151 gcaatagcat cacaattttc acaaataaag catttttttc actgcattct agttgtggtt 1560
152 tgtccaaact catcaatgta tcttaacgcy aactacgtca ggtggcactt ttcgggaaa 1620
153 tgtgcgcgga accctatttt gtttattttt ctaaatacat tcaaatatgt atccgctcat 1680
154 gagacaataa ccctgataaa tgcttcaata atattgaaaa aggaagagta tgagtattca 1740
155 acatttccgt gtcgccctta ttcccttttt tgcggcattt tgcccttctg tttttgctca 1800
156 ccgagaaacg ctggtgaaaag taaaagatgc tgaagatcag ttgggtgcac gagtgggtta 1860
157 catcgaaact gatctcaaca gcggtaaagt ccttgagagt tttcgccccg aagaacgttc 1920
158 tccaatgatg agcactttta aagtcttgct atgtggcgcg gtattatccc gtgttgacgc 1980
159 cgggcaagag caactcggtc gccgcataca ctattctcag aatgacttgg ttgagtactc 2040
160 accagtcaca gaaaagcatc ttacgagtgg catgacagta agagaattat gcagtgtgc 2100
161 cataaccatg agtgataaca ctgcggccaa cttacttctg acaacgatcg gaggaccgaa 2160
162 ggagctaacc gcttttttgc acaacatggg ggatcatgta actcgccctg atcgttggga 2220

```

RAW SEQUENCE LISTING

DATE: 09/05/2001

PATENT APPLICATION: US/09/815,937

TIME: 20:36:28

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\09052001\I815937.raw

```

163 accggagctg aatgaagcca taccaaacga cgagcgtgac accacgatgc ctgtagcaat 2280
164 ggcaacaacg ttgcgcaaac tattaactgg cgaactactt actctagctt cccggcaaca 2340
165 attaatagac tggatggagg cggataaagt tgcaggacca cttctgcgct cggcccttcc 2400
166 ggctggctgg tttattgctg ataaatctgg agccggtgag cgtgggtctc gcggtatcat 2460
167 tgcagcactg gggccagatg gtaagccctc ccgtatcgta gttatctaca cgacggggag 2520
168 tcaggcaact atggatgaac gaaatagaca gatcgctgag ataggtgcct cactgattaa 2580
169 gcattggtaa ctgtcagacc aagtttactc atatatactt tagattgatt taccgccgtt 2640
170 gataatcaga aaagcccca aaacaggaag attgtataag caaatattta aattgtaaac 2700
171 gttaataatt tgtaaaaatt cgcgttaaat ttttgtaaaa tcagctcatt ttttaacca 2760
172 taggccgaaa tcggcaaaat cccttataaa tcaaaagaat agcccgagat aggggtgagt 2820
173 gttgttccag tttggaacaa gagtccacta ttaaagaacg tggactccaa cgtcaaaggg 2880
174 cgaaaaaccg tctatcaggg cgatggccca ctacgtgaac catcacccaa atcaagtttt 2940
175 ttggggtcga ggtgccgtaa agcactaaat cggaacccta aaggggagccc ccgattttaga 3000
176 gcttgacggg gaaagcgaac gtggcgagaa aggaaggga gaaagcga gggagcgggcg 3060
177 ctaggcgct ggcaagtgt ggcgtcacgc tgcgcgtaac caccacaccc gccgcgctta 3120
178 atgcgccgct acaggcgcg taaaaggatc taggtgaaga tcctttttga taatctcatg 3180
179 accaaaatcc cttaacgtga gttttcgttc cactgagcgt cagaccccg agaaaagatc 3240
180 aaaggatctt cttgagatcc ttttttctg cgcgtaatct ggtgcttgca aacaaaaaaa 3300
181 ccaccgctac cagcggtggt ttgtttgcc gatcaagagc taccaactct tttccgaag 3360
182 gtaactggct tcagcagagc gcagatacca aatactgttc ttctagtgt gccgtagtta 3420
183 ggccaccaact tcaagaactc tgtagcaccg cctacatacc tcgctctgct aatcctgtta 3480
184 ccagtggctg ctgccagtgg cgataagtcg tgtcttaccg ggttggaactc aagacgatag 3540
185 ttaccggata aggcgcagcg gtcgggctga acgggggggtt cgtgcacaca gccagcttg 3600
186 gagcgaacga cctacaccga actgagatac ctacagcgtg agctatgaga aagcgccacg 3660
187 cttcccgaag ggagaaaggc ggacaggtat ccggtaaagc gcagggtcgg aacaggagag 3720
188 cgcacgaggg agcttccagg gggaaacgcc tggatcttt atagtctgt cgggtttcgc 3780
189 cacctctgac ttgagcgtcg atttttgtga tgctcgtcag gggggcggag cctatggaaa 3840
190 aacgccagca acgcggcctt ttacgggttc ctggcctttt gctggccttt tgctcacatg 3900
191 taatgtgagt tagctcactc attaggcacc caaggcttta cactttatgc ttccggctcc 3960
192 tatgttgtgt ggaattgtga gcggataaca atttcacaca ggaaacagct atgaccatga 4020
193 ttacgcaag ctacgttaata cgactcacta ggcggcccg tttaaacaat gtgctcctct 4080
194 ttggcttgct tccgcgggcc aagccagaca agaaccagtt gacgtcaagc ttcccgggac 4140
195 gcgtgctagc ggcgcgccga attcctgcag gattcgaggg cccctgcagg tcaattctac 4200
196 cgggtagggg aggcgctttt cccaaggcag tctggagcat gcgcttttagc agccccgctg 4260
197 gcacttgccg ctacacaagt ggctctggc ctcgcacaca ttccacatcc accggtagcg 4320
198 ccaaccggct ccgttctttg gtggccctt cgcgccacct tctactctc ccctagtcag 4380
199 gaagtcccc cccgccccgc agctcgcgtc gtgcaggacg tgacaaatgg aagtagcacg 4440
200 tctcactagt ctctgcaga tggacagcac cgctgagcaa tggaaagcgg taggcctttg 4500
201 gggcagcggc caatagcagc tttgctcctt cgctttctgg gctcagaggc tgggaagggg 4560
202 tgggtccggg ggcgggctca ggggcgggct caggggcggg gcgggcgcga aggtcctccc 4620
203 gaggccggc attctcgac gcttcaaaa cgcacgtctg ccgcgctgtt ctctcttcc 4680
204 tcatctccgg gcctttcgac ctgcagccaa tatgggatcg gccattgaac aagatggatt 4740
205 gcacgcaggt tctccggccg cttgggtgga gaggtattc ggctatgact gggcacaaca 4800
206 gacaatcggc tgctctgatg ccgccgtgtt ccggtgtca gcgcagggg gcccggttct 4860
207 ttttgtcaag accgacctgt ccggtgccct gaatgaactg caggacgagg cagcgcggct 4920
208 atcgtggctg gccacgacgg gcgttccttg cgcagctgtg ctcgacgttg tactgaagc 4980
209 ggaagggag tggctgctat tgggcgaagt gccggggcag gatctcctgt catctcacct 5040
210 tgcctctgcc gagaaagtat ccatcatggc tgatgcaatg cggcggtctg atacgcttga 5100
211 tccggctacc tgccattcg accaccaagc gaaacatcgc atcgagcag cactactcg 5160

```

RAW SEQUENCE LISTING

DATE: 09/05/2001

PATENT APPLICATION: US/09/815,937

TIME: 20:36:28

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\09052001\I815937.raw

```

212 gatggaagcc ggtcttgtcg atcaggatga tctggacgaa gagcatcagg ggctcgcgcc 5220
213 agccgaactg ttcgccaggc tcaaggcgcg catgcccgcac ggcgatgatc tcgtcgtgac 5280
214 ccatggcgat gccctgcttg cgaatatcat ggtggaaaat ggccgctttt ctggattcat 5340
215 cgactgtggc cggctgggtg tggcggaccg ctatcaggac atagcgttgg ctaccctgta 5400
216 tattgtcgaa gagcttggcg gcgaatgggc tgaccgcttc ctcgtgcttt acggtatcgc 5460
217 cgctcccgat tcgcagcgca tcgccttcta tcgccttctt gacgagttct tctgagggga 5520
218 tcgatccgtc ctgtaagtct gcagaaattg atgatctatt aaacaataaa gatgtccact 5580
219 aaaatggaa gtttttctgt catactttgt taagaagggt gagaacaga' tacctacatt 5640
220 ttgaatggaa ggattggagc tacgggggtg ggggtgggtt gggattagat aaatgcctgc 5700
221 tctttactga aggcctctta ctattgcttt atgataatgt ttcatagttg gatatacata 5760
222 tttaaacaag caaaaacaaa ttaagggcca gctcattcct ccactcatg atctatagat 5820
223 ctatagatct ctcgtgggat cattgttttt ctcttgattc ccactttgtg gttctaagta 5880
224 ctgtggtttc caaatgtgtc agtttcatag cctgaagaac gagatcagca gcctctgttc 5940
225 cacatacact tcattctcag tattgttttg ccaagttcta attccatcag aagctgactc 6000
226 tagatctgga tccggccagc taggccgtcg acctcgagt atcaggtaac aaggctcctg 6060
227 ctctgtgtcc gttgagctcg acgacacagg acacgcaaat taattaaggc cggcccgta 6120
228 cctctagtca aggccttaag tgagtcgtat tacggactgg ccgtcgtttt acaacgtcgt 6180
229 gactgggaaa accctggcgt taccacactt aatcgcttg cagcacatcc ccctttcgcc 6240
230 agctggcgta atagcgaaga ggcccgacc gatcgccctt cccaacagtt gcgcagcctg 6300
231 aatggcgaat ggcgcttcgc ttggtaataa agcccgttc ggcgggcttt ttttt 6355

```

233 <210> SEQ ID NO: 3

234 <211> LENGTH: 26

235 <212> TYPE: DNA

236 <213> ORGANISM: Artificial Sequence

238 <220> FEATURE:

239 <223> OTHER INFORMATION: Phage vector

241 <400> SEQUENCE: 3

242 tgtgctcctc ttggccttgc ttccaa

26

244 <210> SEQ ID NO: 4

245 <211> LENGTH: 26

246 <212> TYPE: DNA

247 <213> ORGANISM: Artificial Sequence

249 <220> FEATURE:

250 <223> OTHER INFORMATION: Phage vector

252 <400> SEQUENCE: 4

253 ttggaagcaa gccaaagagg agcaca

26

255 <210> SEQ ID NO: 5

256 <211> LENGTH: 25

257 <212> TYPE: DNA

258 <213> ORGANISM: Artificial Sequence

260 <220> FEATURE:

261 <223> OTHER INFORMATION: Phage vector

263 <400> SEQUENCE: 5

264 ctggttcttg tctggcttgg cccaa

25

266 <210> SEQ ID NO: 6

267 <211> LENGTH: 25

268 <212> TYPE: DNA

269 <213> ORGANISM: Artificial Sequence

271 <220> FEATURE:

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/815,937

DATE: 09/05/2001

TIME: 20:36:29

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\09052001\I815937.raw